

## Section 402

Unless otherwise specified in the contract, remove temporary piling to the streambed level or to one foot below existing ground.

### 400-5 MEASUREMENT AND PAYMENT

The price and payment below will be full compensation for all work required to provide temporary structures including, but not limited to, those items contained in Article 400-1.

The work covered by this section will be paid at the contract lump sum price for *Construction, Maintenance and Removal of Temporary Structure at Sta. \_\_\_\_*.

Payment will be made under:

Pay Item	Pay Unit
Construction, Maintenance and Removal of Temporary Structure at Sta. ____	Lump Sum

## SECTION 402 REMOVAL OF EXISTING STRUCTURES

### 402-1 DESCRIPTION

Excavate as necessary to remove the structure; dismantle, salvage and stockpile materials and components of the structure and preserve those portions that should remain intact and dispose of waste and debris.

Maintain traffic over the existing structure in accordance with Division 11 unless otherwise stipulated by the contract. Comply with the posted load limits of the existing structure. The maintenance of the existing structure, if required, will be performed by Department forces.

### 402-2 REMOVAL OF EXISTING STRUCTURE

#### (A) General

Use approved methods and operations for removal of structures. Upon removal, all materials become the property of the Contractor unless otherwise indicated in the contract. Dispose of waste and debris from the structures in accordance with Section 802.

Perform removal operations while preventing damage to adjacent property. Protect new construction during blasting or other operations necessary for the removal of the existing structure.

Unless otherwise required by the contract, remove substructures down to the streambed or one foot below the natural ground surface. Remove the substructure as necessary to avoid interference with construction of the proposed structure.

Prevent erosion of soil and silting of rivers, streams, lakes, reservoirs, water impoundment, ground surfaces or other property. Do not deposit excavated materials and do not construct earth dikes or other temporary earth structures in rivers, streams or impoundment, or so near to such waters that they are carried into any river, stream or impoundment by stream flow or surface runoff. Limit the use of equipment in any body of water to those operations that are impossible or impractical to perform in any other way and control them as to minimize erosion and siltation. Submit, and await approval for, a plan for bridge demolition for bridges over water before beginning removal. Do not drop components of structures into any body of water. Remove these existing bridges by sawing or other non-shattering methods. Remove any component of a structure from the water so as to minimize siltation.

**(B) Requirements for Materials Which Remain the Property of the Department**

Pile materials salvaged from the structure neatly on the right of way at locations as directed.

Do not use any materials, either temporarily or permanently, which are removed from the structure unless so permitted by the contract.

Remove structural materials carefully without damage.

Do not use explosives to remove concrete floor slabs from steel superstructures that remain the property of the Department.

**(C) Requirements for Partial Removal**

Perform partial removal true to the lines indicated in the plans. Submit, and await approval for, a plan for partial removal of bridges before beginning removal. Do not remove concrete by blasting or other method that may cause damage to the concrete or reinforcement that is used in the completed structure.

Use equipment and methods to remove portions of a concrete structure undergoing widening which are sufficient to obtain plan lines and slopes without undue spalling at edges of the concrete. Do not use an iron ball or pile hammer to remove portions of a concrete structure undergoing widening.

**402-3 MEASUREMENT AND PAYMENT**

The price and payment below will be full compensation for all items required to remove existing structures including, but not limited to, those items contained in Article 402-1.

When the contract includes the item of *Removal of Existing Structure at Station \_\_\_\_*, the work of removing the structure will be paid at the contract lump sum price for this item.

When the contract includes the item of *Removal of Existing Structures at Station \_\_\_\_*, the work of removing the structures will be paid at the contract lump sum price for this item.

Payment will be made under:

<b>Pay Item</b>	<b>Pay Unit</b>
Removal of Existing Structure at Station ____	Lump Sum
Removal of Existing Structures at Station ____	Lump Sum

## SECTION 410 FOUNDATION EXCAVATION

**410-1 DESCRIPTION**

Excavate any material as necessary for the construction of foundations and end bent caps for bridges, retaining walls of reinforced concrete or reinforced masonry, arch culverts and box culverts without floor slabs in accordance with the contract or as directed. Excavate, perform exploratory drilling at footings to a depth not to exceed 5 ft, blast, drain, divert water, bail and pump. Provide and remove bracing, shoring, sheeting, cribbing and cofferdams; substructure scour protection, subsurface drainage and drawings; and backfill including hauling and disposal of materials.

Do not deposit excavated materials or construct earth dikes or other temporary earth structures in rivers, streams or impoundment or so near to such waters that they are carried into any river, stream or impoundment by stream flow or surface runoff. As an exception to the above, obtain written approval for the use of confined earth materials in cofferdams for structure foundations.